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| (1 AND 2 AND 3).DWPI. | 2 |
| (L1 AND L2 AND L3).DWPI. | 2 |

Database:

US Patents Full-Text Database
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IBM Technical Disclosure Bulletins

Search History

DATE: Friday, April 05, 2002 [Printable Copy](#) [Create Case](#)

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| <i>DB=DWPI; PLUR=YES; OP=ADJ</i> | | | |
| <u>L4</u> | l1 and l2 and l3 | 2 | <u>L4</u> |
| <u>L3</u> | carrier | 285120 | <u>L3</u> |
| <u>L2</u> | amino acid | 46727 | <u>L2</u> |
| <u>L1</u> | sea adj1 water | 11709 | <u>L1</u> |

END OF SEARCH HISTORY

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Search Results - Record(s) 1 through 2 of 2 returned.**1. Document ID: JP 2000212306 A**

L4: Entry 1 of 2

File: DWPI

Aug 2, 2000

DERWENT-ACC-NO: 2001-074032

DERWENT-WEEK: 200111

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TITLE: Negative ion-exchanging film, includes specified styrene repeat units having alkylene quat. amine groups and/or amino groups attached to ring

PRIORITY-DATA: 1999JP-0013228 (January 21, 1999)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|-----------------|----------------|----------|-------|------------|
| JP 2000212306 A | August 2, 2000 | | 015 | C08J005/22 |

INT-CL (IPC): B01 D 53/34; B01 D 53/77; B01 J 41/14; B01 J 47/12; C02 F 1/469; C08 F 12/28; C08 J 5/22

ABSTRACTED-PUB-NO: JP2000212306A

BASIC-ABSTRACT:

NOVELTY - A negative ion-exchanging film comprises polymer containing repeating unit (1-1) and/or (2-2) as constitutional components.

DETAILED DESCRIPTION - A negative ion-exchanging film comprises polymer containing repeating unit of formula (1) and/or (2) as constitutional components.

A = 3-8C straight chain, branched alkylene or 4-8C alkoxyethylene;

R1, R2, R3 = H, up to 6C alkyl or alkanol.

INDEPENDENT CLAIMS are also included for an anion-exchanging film which is prepared by laminating the anion exchanging film defined above and a positive ion-exchanging film; an anion-exchanging film which contains continuous phase consisting of cation-exchanger and a continuous phase consisting of the anion-exchanger, containing repeating unit (1) and/or (2) as constitutional components; an anion-exchanging film which contains a continuous phase consisting of porous carrier material and a continuous phase which comprises anion-exchanging film containing repeating unit (1) and/or (2) as constitutional components; an anion-exchanging film which is prepared by laminating an anion-exchanging film, consisting of polymer containing repeating unit (1) as constitutional component, with anion-exchanging film, consisting of polymer containing repeating unit (2) as constitutional component; an anion-exchanging film which is a crosslinking anion-exchanger of formula (3) containing 5-99 mol % of constituting unit, P and 0.1-50 mol % of constituting unit, Q; preparation of the anion-exchanging film which comprises polymerizing solution containing monomer of formula (4) in the presence of a polymerization initiator into film form and, if necessary, converting into anion-exchanging group; electrodialysis method and its equipment; and an electrical deionizing equipment.

Z = Cl, Br, I, OH, tosyl, primary to tertiary amine or ammonium group-NR1R2R3;

R1, R2, R3 = H, up to 6C alkyl or alkanol.

USE - The anion-exchanging film is suitable for desalting, treating, filtering, ion-exchanging, condensing, separating, reacting and purifying aqueous solution containing ionic substances, ion charge fine particles, coloring material, radiation material, polymer electrolyte, amino acid and/or protein. The anion-exchanging film is suitable for electrodialysis, electrical deionizing method and treating discharged gas. The anion-exchanging film is useful for producing sea water-condensed salt, brackish water, low-chlorine ion caustic soda solution, condensing of Glauber's salt, Glauber's salt-zinc sulfate, sodium sulfite, a desalted whey-protein, salt-decreased soy bean source, purification of sugar solution, electric fermentation, removal of inorganic acids and inorganic salts from amino acids, condensation, removal of metal ion, removal of radiative ion, producing of acid and alkali, double decomposition reaction, bath controlling of electrodeposition coating bath, electrical deionizing, desulfurizing from discharged gas, barrier film for battery, ion-exchanging film for fuel battery, ion-exchanging filtering material, synthetic catalyst, deodorizing antibacterial film.

ADVANTAGE - The anion-exchanging film has good thermoresistance, chemical stability, anti-oxidizing properties and holds the anion-exchanging function even under high temperatures, in oxidizing atmosphere, high-concentrated solution. The anion-exchanging film only slightly elutes from resin, has good reaction speed, low content of reinforcing agent and good flexibility.

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| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | WAC | Draw Desc | Cto Img | Image |
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2. Document ID: JP 57083235 A

L4: Entry 2 of 2

File: DWPI

May 25, 1982

DERWENT-ACC-NO: 1982-53893E

DERWENT-WEEK: 198226

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TITLE: Breeding fish and shell fish spawn in sea water - using a floating source of nutrients etc., made e.g. from polyacrylonitrile film

PRIORITY-DATA: 1980JP-0155842 (November 7, 1980)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|---------------|--------------|----------|-------|----------|
| JP 57083235 A | May 25, 1982 | | 004 | |

INT-CL (IPC): A01K 61/00

ABSTRACTED-PUB-NO: JP57083235A

BASIC-ABSTRACT:

A carrier e.g. of foamed natural or synthetic plastic material, natural or synthetic fibre or film (e.g. polyacrylonitrile film, etc.) etc., bearing nutrients e.g. natural or synthetic nutrients selected from phosphoric acid, ortho-phosphoric acid, polyphosphoric acid, alkali metal salts of nitric acid, sulphuric acid, hydrochloric acid, and carbonic acid, the alkaline earth metal and ammonium salts of these acids, ammonia, urea, various amino acids, various animal or vegetable proteins, essential amino acids, fats and oils, saccharides, nucleic acid, enzymes, vitamins, hormones, etc. is floated so as to elute slowly these nutrients from the carrier into the sea water.

The method contributes to the growth of the spawn and fry of fish and shellfish being cultured in sea water.

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| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | WAC | Draw Desc | Image |
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